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# MEDICAL UNIVERSITY OF SOUTH CAROLINA



## ANNUAL REPORT

1987-1988

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Dear Governor Campbell and The General Assembly:

The Medical University continues to refine and focus upon our strategic plan which is to develop unique research, clinical service and educational opportunities through interdisciplinary centers. Our priorities for development are constantly under intense scrutiny according to the needs of South Carolinians, institutional strengths and availability of resources. Current priorities are centers for oncology, molecular biology, structural biology, heart, children, mental health, geriatrics, rehabilitation and transplantation. There is great potential for MUSC in each of these efforts and nationally recognized activities are already underway in many areas.

We are proud to report successful results with our efforts to assist small rural hospitals. After one year of MUSC management, Williamsburg County Hospital has improved utilization of clinical services and financial viability. Several other rural hospitals have inquired about affiliated arrangements and there has been an agreement finalized with Hampton County Hospital in Varnville. Other agreements may follow as we assess our ability to extend this program.

The negotiation of a working arrangement with the Savannah River Plant offers great opportunity for South Carolina's universities and to the state through technological and economic development. Never have the universities achieved a better understanding of each other than through establishing the foundation for this project. MUSC provides basic strengths and interest in industrial medicine, a health care plan for employees and families, environmental medicine and hazardous waste management.

You deserve praise for establishing the Cutting Edge program for higher education. This plan developed under the leadership of the Commission on Higher Education provides stimulus for significant improvement in all South Carolina colleges and universities.

My report would not be complete without mention of the problem presented by patients with no funding for health care. This problem threatens MUSC and most of the excellent hospital system in South Carolina. It is a complex problem with multiple, inter-related solutions and dedicated attention is required to achieve success.

MUSC is an important resource for the state. We possess significant assets in the forms of a knowledgeable, innovative faculty; excellent facilities; a bright, energetic student body and strong recruitment potential. Above all, we are blessed with important opportunities against which to deploy these assets.

We at the Medical University appreciate the encouragement and support of our elected officials and the taxpayers of our state. We pledge to be responsible stewards of that trust.

James B. Edwards, D.M.D.  
President



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## COLLEGE OF GRADUATE STUDIES

### A Comparison of Student Application Data for 1980-88

#Students	1980	1981	1982	1983	1984	1985	1986	1987	1988
Applying	153	169	145	139	141	162	123	108	175
Accepted	35	31	46	48	54	49	71	52	70
Admitted	21	22	25	28	23	39	44	20	28*
Graduated									
M.S.	15	5	6	4	7	7	6	3	7
Ph.D.	10	10	18	12	15	11	12	14	13

\*Actual to date

### Student Qualifications for Admission 1980-88

	1980	1981	1982	1983	1984	1985	1986	1987	1988
GPA	2.96	3.30	3.24	3.40	3.36	3.45	3.29	3.41	3.44
GRE	1123	1174	1206	1300	1153	1194	1150	1161	1127
						*1738	1727	1748	1695

\*It was the decision of Graduate Council in 1985 to consider three Graduate Record Examination Scores, verbal, quantitative, and analytical, when ranking an applicant. The minimum total score is now 1650, rather than 1100. Those applicants who were awarded assistantships had an average cumulative GPA of 3.67 and total GRE score of 1913.

The Medical Scientist Training Program had 16 students enrolled. Travel support was provided for 12 students to 9 national meetings.

Eighteen postdoctoral trainees were sponsored by the College for five months or more. Of these, six (6) were clinical postdoctoral fellows.



Of the students who participated in the Summer Health Professional Program, 95% chose academically oriented internships and residencies. Five students who participated in this program have entered the MD/PhD program. Two other students applied for a new NIH fellowship to allow them to spend a year at NIH.

Under the Summer Research Faculty Fellows Program, three full fellowships of \$5000 each were awarded to faculty of undergraduate colleges with limited research opportunities to undertake a research project in an established laboratory at MUSC.

### **Department of Biometry**

The Department of Biometry taught 43 courses to 625 students in the six Colleges of the University. During the past year, the Department had 33 graduate students, conferred 1 Master of Sciences degree and 4 Doctor of Philosophy degrees. The faculty made 19 presentations before learned societies, authored or co-authored 48 publications and 2 abstracts.

Laboratories in artificial intelligence, image processing, statistics and student microcomputer learning were established.

The department received support from several training and research grants and contracts. The Biometry faculty provided computer and statistical support for more than 256 independent projects within and outside the University.

### **Office of Research and Sponsored Programs**

Extramural awards to faculty during FY87-88 totalled \$19.5 million (including indirect costs), an increase of nearly \$3 million over the previous year's total. It is significant to note that the increase occurred primarily in federal research and training awards, despite the fact that NIH research awards were funded at severely reduced levels for six months of the year due to federal budgetary constraints. Support from industry, foundations and voluntary health organizations remained relatively constant in comparison with the previous year. By continuing to promote MUSC as a center for conducting clinical trials, and by identifying additional funding sources through software packages currently available, additional increases are expected in these areas as well.

The University Research Committee awards funds to investigators to initiate and develop projects to the point at which they can be submitted for competitive extramural funds. A recent analysis showed the extraordinary success of this activity over the past 10 years--each dollar awarded by the committee resulted in over seven dollars of subsequent extramural support, excluding indirect costs.



As the "center concept" continues to be developed, MUSC appears poised to realize significant increases in research funding over the next few years. The Cancer Center will provide state-of-the-art facilities and additional research space, and will offer the opportunity to recruit highly-qualified specialists to complement the approximately \$1.5 million of cancer-related research already in place. The Molecular Genetics/Structural Biology Center, while still in the planning stages, proposes a multidisciplinary approach to solving basic and clinical research questions, and has attracted the attention of some of the country's leading scientific experts in the field.

Continued increases in extramural funding reflect no significant increases in the number of faculty, staff or research space on campus, but instead are the result of the increased productivity of the faculty - more faculty receiving more awards. The planned addition of approximately 250,000 ft<sup>2</sup> of new research space over the next several years (Cancer Center 73,000 ft<sup>2</sup>; Structural Biology/Molecular Genetics 80,000 ft<sup>2</sup>; and Lab Animal Medicine and Research Facilities 100,000 ft<sup>2</sup>) represents more than double the research space which currently exists.

#### **Office for Protection from Research Risks**

In 1987-88, the Office for Protection from Research Risks was charged with the administration of the Animal Review Committee in addition to the Institutional Review Board and the Institutional Biosafety Committee. The committees constantly maintain an awareness of the responsibility to federal regulations while responding to the needs of MUSC.

#### **COLLEGE OF MEDICINE**

An Executive Director of the South Carolina Area Health Education Consortium (S.C. AHEC) was appointed.

Chairmanships were filled in the Departments of Microbiology & Immunology, Ophthalmology, and Pathology & Laboratory Medicine.

The new \$50 million Children's Hospital (June 10, 1987) with its operating suites, intensive care units and hospital laboratories continues to bring prestige to MUSC's expanding medical center.

The \$12 million Institute of Psychiatry, officially opened on June 10, 1988, will enable MUSC to be among the nation's leaders for programs in mental health.

The Department of Medicine established a new sleep laboratory and expanded its program in the molecular biology of cardiac dysfunction.



The Department of Family Medicine negotiated an affiliation with the United States Navy to direct the Navy's outpatient program at the Mendel Rivers Clinic in North Charleston.

The faculty published 1,087 journals, abstracts, and book chapters. Extramural grant support increased by 16%.

Several faculty held national office or received noteworthy recognition.

The Admissions Committee admitted 135 students to the College of Medicine selected from 968 applicants.

Members of the graduating class were successful in obtaining excellent residency positions. The clinical departments in the College of Medicine were successful in filling their residency positions.

The Curriculum Committee was restructured to make it more responsive and efficient to the needs of the students.

In addition to state funding, growth in the College of Medicine was financed through grants, contracts, and practice-generated revenues.

#### **COLLEGE OF DENTAL MEDICINE**

A new Dean was appointed to the College of Dental Medicine on April 1, 1988.

Applications to the College of Dental Medicine remained high with 391 applicants to the 1988 entering class from which a class of 48 was selected.

Service to the dental profession in the form of continuing education courses continued to expand with the number of courses presented by Dental Continuing Education growing from 58 courses with 2,341 attendees in 1986-87 to 80 courses with 3,048 attendees in 1987-88.

The clinics of the College of Dental Medicine remained active with 1,280 new patients being screened by the Oral Diagnosis Clinic of the Department of Diagnostic Science and 5,744 patients receiving care in the College of Dental Medicine clinics.

#### **COLLEGE OF PHARMACY**

The College implemented the first phase of its new B.S. curriculum. The final implementation is to take place during the



1988-89 academic year. The Pharm.D. clinical rotations were expanded to include three off-campus sites.

The extensive recruitment program for the B.S. and Ph.D. programs continued during the year with 2.5 applicants for each spot.

The contracts and grants received by the faculty increased 11%. Unrestricted contributions to the college remained fairly steady.

There was an increase of nine students over the 1986-87 academic year with the B.S. enrollment at 190 students, the Pharm.D. at 35 and the Ph.D. at 13. The entering B.S. GPA was 2.90. In May, 1988, 57 students received the B.S. degree and 17 the Doctor of Pharmacy degree.

A total of 45 articles were published by 24 faculty in scientific and professional journals. The faculty presented 103 seminars throughout the State and nation on all aspects of professional and scientific pharmacy. The faculty was very active on committees of the State and national professional organizations and actively participated in many community and religious activities.

#### COLLEGE OF NURSING

National Board Examination scores (NCLEX) were 96% (100% after repeats) for the 1987 graduating class. This was the highest passage rate in the State of South Carolina.

An MUSC undergraduate student serves as President of the South Carolina Student Nurses Association for the second year in a row.

Enrollments in the registered nurse and graduate programs continued to increase.

External funding substantially increased.

Faculty held such national offices as Treasurer of the American Nurses Association; Board of Directors, ANA; President of the American Association of Critical Care Nurses; and President of the College of Nurse Midwives. Major regional and state leadership positions were held by College of Nursing faculty.

Faculty served on 15 editorial boards and produced 40 publications; another 37 were accepted for publication.

Two new tracks were implemented in the graduate program: Gerontological Nursing and Midwifery, and a new undergraduate curriculum was developed.



## COLLEGE OF HEALTH RELATED PROFESSIONS

Specific to its primary mission, the College continued to offer excellent bachelor, master, advanced certificate and continuing education levels of professional training. The educational sites were in Charleston, Greenville, Columbia and Florence, with the latter three providing courses for working adults during evening hours.

A high point of total College student enrollment was up from the previous year, slightly exceeding 500 counting both full-time and part-time matriculants in regular professional curriculums. The number of adult evening hours students reached an all-time high counting both bachelor and master levels. Now evening hours students make up close to half of the student body of the College. Slightly less than half of the evening hours matriculants are pursuing master's degrees, with graduate students now making up one of five in the total enrollment.

Academically, the College remained relatively stable as evidenced by scorings of various graduate groups in national or state licensure, registry or certification examinations which remained slightly above the national averages in most of the various fields. During the reporting period, 225 graduates received degrees or certificates which represents one of the largest number of graduates since the College became a totally upper division.

The graduate program in Health Services Administration received national accreditation status during the year, the first such recognition in South Carolina, and thus qualified the program to receive considerable federal educational support funding.

Two new baccalaureate degrees were approved by the Commission on Higher Education during the reporting period, one in Health Sciences and one in Radiation Therapy.

Accomplishments of the College's faculty were varied. To be noted were one Fulbright Scholar, one who received a Ph.D. degree in a scientific field, and one faculty member of long standing who received a master's degree after obtaining baccalaureate and associate degrees over the past decade while continuing to work and teach in a specialized laboratory field. A number of faculty members published in journals, contributed to textbooks and, in general, exhibited creative activities worthy of sharing with others. Several faculty members continued to work towards advanced degrees while they continued to teach full-time.

As compared to other similar professional institutions, the College has remained cost-efficient while meeting its primary goal of providing quality education.



## **OFFICE OF EDUCATIONAL SERVICES**

### **Division of Instructional Support Services**

The strength of the Division continued to be personal interaction/consultation with faculty in support of instructional programs. In 1987-88, OES also conducted formal teaching improvement programs (for approximately 100 faculty) in the Colleges of Medicine, Pharmacy, Health Related Professions and Nursing . In addition, OES faculty helped to develop mediated instructional materials for seven courses.

### **Evaluation Services**

The Educational Testing Center processed 740 exams and 30 separate surveys/evaluations. Use of the Educational Computer Laboratory increased by 20%.

### **Television Production/Health Communications Network**

In addition to engineering support for several new installations in the University (Wellness Center, Institute of Psychiatry, Weight Management Program), the Television Section produced 138 new programs. HCN added seven new members and 277 new programs to its video cassette catalogue. Attendance reports indicated that more than 20,000 healthcare workers in South Carolina were served by HCN. The Division also provided classroom support services for the University.

### **Audiovisual Production**

The Division continued to upgrade its ability to provide computer generated graphic materials and a program is underway to expand this service to outlying centers.

## **LIBRARY AND LEARNING RESOURCES CENTERS**

At the close of fiscal year 1987-88, the Library's holdings totaled 181,990 volumes.

During the year, plans were finalized to include research databases into the library's information system. This step precluded the need for duplicating such databases and provided access to both basic and clinical science researchers.

### **Waring Historical Library**

During the fiscal year 1987-88, the Waring Historical Library served more than 250 researchers. The collection was enlarged and more than 50 old volumes were restored.



## ACADEMIC INFORMATION MANAGEMENT

Considerable progress was made in fostering and encouraging faculty and students in the use of computers in teaching, learning and research. The office assisted the Medical University Hospital in completing contracts for a large hospital information system and was involved in dental continuing education programs in computer literacy as well as provided assistance in the implementation of the automated library system.

## OFFICE OF THE REGISTRAR AND ADMISSIONS

The 1987-88 year concentrated on reviewing and refining the services and systems in the areas of Student Admissions and Records provided by the Office of the Registrar & Admissions.

The office also assumed additional responsibilities in planning and coordinating Commencement Exercises.

Statistics and education information systems produced a total of 26 statistical reports, numerous surveys, and data collection for publications providing information about the Medical University.

### Enrollment Summary

Post Doctoral Fellows	76
MUSC Residents and Interns	456
Consortium Hospital Residents and Interns	<u>415</u>

TOTAL - Post Doctoral Fellows, Residents and Interns 947

### MUSC Colleges

Graduate Studies	114
Medicine	600
Dental Medicine	183
Pharmacy	225
Nursing	366
Health Related Professions	511
Non-Degree Programs (Unclassified)	<u>50</u>

TOTAL - College 2049

GRAND TOTAL 2996



### Completions Summary

House Staff - MUSC	82	
Consortium Residents	<u>118</u>	
TOTAL		<u>200</u>
MUSC Colleges		
Graduate Studies	20	
Medicine	138	
Dental Medicine	39	
Pharmacy	74	
Nursing	124	
Health Related Professions	<u>181</u>	
TOTAL		<u>576</u>
<u>GRAND TOTAL</u>		<u>776</u>

### UNIVERSITY STUDENT PROGRAMS & ACTIVITIES

The Office of Student Programs continues to coordinate extracurricular student activities, to provide student services, and to advise the University on policies pertaining to student life issues.

In addition to its usual activities, the office sponsored seminars on test taking skills, time management, personal finance and other topics in response to requests by students and student organizations.

The service ethic continued strong among student organizations. Superhealth, an interdisciplinary student group organized for the purpose of educating young people about health issues, made about 100 presentations this year to elementary and high school groups on a variety of topics. Other student service organizations maintained their momentum and continue to attract student members.

### Student Financial Aid

During 1987-88, the number of students taking out loans increased by only 5%, the dollar amount increased by 40%. There was a decrease in grant dollars of approximately 37%.

This year, 72.2% of all full-time students received financial assistance while attending the Medical University of South Carolina. A total of 1280 students received over \$9.5 million in grants, loans, scholarships, or work awards from all sources. This is up \$1 million from last year.



## **STUDENT/EMPLOYEE HEALTH SERVICES**

During 1987-88, 14,448 visits were made to Student/Employee Health Services. Of these, 9,379 were employee visits and 5,069 were student visits (36% increase over FY86-87). Job related injuries decreased 18.8%. There were 1,491 pre-employment physicals and 670 OSHA physicals performed. In addition, 4,519 tuberculin screening tests were done and 801 Hepatitis B vaccines were administered. An additional 892 visits were reported by Student Health Psychiatry.

Increased utilization of newly developed computerized programs provided monthly reports to facilitate trend analysis and projections for future needs. A Health Risk Appraisal computer program helped individuals determine their wellness status and recommended changes to improve their overall health was implemented.

## **STUDENT/WELLNESS CENTER**

The Student/Wellness Center Phase I was completed and will open for students at the start of the new fiscal year. Effective in May 1988, the Center was merged with Student Health, Student Programs, and Student Advisory Services to form Student Support Services under the leadership of a new Dean of Student Life.

## **MUSC MEDICAL CENTER**

The Medical University of South Carolina expanded its Centers of Excellence concept through the opening of the Institute of Psychiatry. Patients from childhood through adult years with psychiatric disorders will be treated in this 47 bed facility as either inpatients or outpatients. South Carolina's first heart transplant was successfully performed at MUSC, with a total of seven transplants completed in FY1988. The Bone Marrow and Renal Transplant Programs continued to increase in volume of patients served. The Children's Hospital celebrated its First Year Anniversary, offering comprehensive services through inpatient, ambulatory care, neonatal ECMO program and South Carolina Children's Heart Center. The MEDUCARE helicopter emergency transport program transported 653 patients in its first year of operation. This service significantly increased access to tertiary emergency services for citizens throughout the State of South Carolina.

MUSC continued to be responsive to the needs of communities in South Carolina through its outreach programs. Outreach clinics offered included Cardiac and Ophthalmology. Administrative outreach services included management contracts at Williamsburg County Memorial Hospital and Hampton General Hospital (affiliation), strengthening our referral ties with these communities. The



Physician Liaison Program began visiting referring physicians in South Carolina, thereby increasing communication, awareness of physician concerns and MUSC services available.

Phase I of the Information System was completed. The Case Management Model was adopted to assure cost effective resource utilization and quality patient care. The Office of Patient Financial Services was established to increase resolution of patient accounts and increase access to funding sources for indigent patients.

Significant increases in volume of services delivered by MUSC in FY1988 occurred in the following areas: patient days (7.1%); outpatient visits (9.9%); surgical procedures (21.2%); and ancillary procedures (15.5%).

The hospital received a three year accreditation from the Joint Commission.

## **VICE PRESIDENT FOR BUSINESS AFFAIRS**

### **Finance Division**

The University received an unqualified audit report for fiscal year 1987. The revenue of the University increased 5%.

### **Department of Human Resources Management**

The Department of Human Resources Management continued to place emphasis upon providing high quality and expanded services. Efforts to implement organizational changes and contribute toward accomplishing organizational goals made for challenging year.

Human Resources staff played a key role in coordinating Guest Relations training. A total of 187 training sessions were held involving 4189 employees.

A new Optional Retirement Plan (ORP) was made available for faculty. New faculty members now have a choice of joining the South Carolina Retirement System or the ORP. Most new faculty selected the ORP.

A significant improvement was made in controlling Workers' Compensation claims through cooperative efforts with Employee Health Services, Safety Services and supervisors throughout the institution. Accidents decreased by 31% from 813 to 557 since last fiscal year.

Effort was devoted toward assisting the Division of Nursing in a major reorganization. This included the establishment of a new job classification series designed specifically for the Division of Nursing.



## **Physical Plant Department**

Major construction projects included completion of the Institute of Psychiatry, Parking Garage II, Lab Animal Medicine renovations, campus asbestos removal, etc. The North Tower and Student Wellness Center projects entered Phase II. The Energy Management System was implemented. University Safety instituted the "Right to Know" training program on hazardous waste.

## **Planning and Administrative Services Group**

In October 1987, several departments were merged with the Office of Planning & Institutional Studies to create the Planning & Administrative Services group. This administrative unit now includes: Planning, Public Safety, Parking Management, Motor Vehicle Operations, Mail Services, Records Management and Microfilm, and University Communications.

## **Planning and Institutional Studies**

Several new leases were negotiated to meet critical space needs on campus. Feasibility studies, both financial and architectural, on several major capital projects were coordinated as part of the ongoing evaluation of the campus Master Plan.

## **Parking Management**

Parking Garage II (980 spaces) was opened in early 1988. The number of handicapped spaces on campus increased by 14. Available patient parking at Family Medicine was increased by 90%. Plans were developed and are being implemented for a new patient parking area (50 spaces).

## **Public Safety**

Public Safety provided 13,927 escorts on the Medical University campus. Crime prevention briefings were held at 19 locations with 838 MUSC personnel attending.

## **Motor Vehicle Operations**

The bus fleet was expanded, the shuttle bus service was improved, and revenue from the rented fleet was increased. Nurses and other critical personnel were successfully transported to the Medical Center during inclement weather.

## **CSX (Information Resources Management)**

CSX implemented several new services designed to assist the faculty and staff. Coordination of implementing the new integrated Hospital Information System began.



## **OFFICE OF AFFIRMATIVE ACTION/MINORITY AFFAIRS**

During the FY1987-88, four black faculty members were appointed to the College of Medicine, one to the College of Health Related Professions and a black resident has been added to the Department of Comparative Medicine. A new Executive Assistant to the President for Affirmative Action and Minority Affairs reported to work January 1, 1988.

Student recruitment efforts included a Summer Academic Enrichment Program, a Summer Health Careers Program and other special initiatives. Tutorial assistance was offered as well as student organizational support to aid in student retention.

The Office requested and received funding from the Commission on Higher Education for 35 Graduate Incentive Fellowships and for 56 Other Race Grants.

The University's Affirmative Action Plan was updated and approved by the State Human Affairs Commission.

The office was involved with and supported many community activities.

## **UNIVERSITY RELATIONS**

### **Development**

1987-88 represented a substantial increase (7%) in private support and in donors (4%). The Society of 1824 membership reached an all time high with 415 gifts (5% increase). The Children's Hospital fund experienced an annual increase of 83% beyond the original goal.

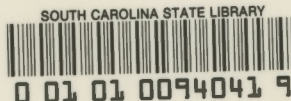
### **Alumni Affairs**

The Office of Alumni Affairs continued to direct the programming of the Alumni Association toward increasing alumni involvement in activities benefitting the Medical University and its current students as well as helping in recruitment efforts by encouraging and identifying future applicants.

### **Medical University Press**

Recognizing the need to reduce overall copying costs, the Medical University Press began planning for an Office Technology Center which will be based upon a service sensitive, centralized copying center designed to meet all University copying needs in an economical and timely manner.





## OFFICE OF PUBLIC RELATIONS

The objective of the University's public relations program to build greater awareness of the University statewide was advanced significantly with the publication of a comprehensive five-year report outlining the achievements of the University since 1982. The report, made possible through funds from the Health Sciences Foundation, was distributed widely to alumni, referring physicians, state officials, news media, MUSC faculty and employees.

### CHARLESTON HIGHER EDUCATION CONSORTIUM

CHEC's major activities for the 1987-88 year centered on three broad areas: school-college collaboration with successful maintenance of numerous programs as well as the initiation of one new project; interinstitutional cooperative efforts continued through coordination of several operational services as well as faculty and staff development activities; Business and community relations through activities designed to determine and match CHEC and community needs and resources.



